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## NOTICE OF ALLOWANCE AND FEE(S) DUE

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07/01/2009

FISH & RICHARDSON P.C. P.O BOX 1022 MINNEAPOLIS, MN 55440-1022 EXAMINER

CHEN, TSE W

ART UNIT PAPER NUMBER

2116

DATE MAILED: 07/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631.327	07/30/2003	Eitan Rosen	MP0280/13361-054001	1395

TITLE OF INVENTION: DDR INTERFACE BUS CONTROL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	10/01/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/631,327	07/30/2003	•	Eitan Rosen	•	MP0	280/13361-054001	1395
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0		\$1510	10/01/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
CHEN,	TSE W	2116	713-500000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Unl	ND RESIDENCE DATA less an assignee is identi h in 37 CFR 3.11. Comp	Indication form ed. Use of a Customer  TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a 2 registered patent attained, no name will be THE PATENT (print or tyldata will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY)	vely,  le firm (having as a agent) and the name princys or agents. If reprinted.  pe)  petatent. If an assigner assignment.	memb s of u o nam	er a 2p to lee is 3	ocument has been filed for
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/631,327	07/30/2003	Eitan Rosen	MP0280/13361-054001	1395	
26200 7.	590 07/01/2009		EXAM	INER	
FISH & RICHARDSON P.C.			CHEN,	TSE W	
P.O BOX 1022			ART UNIT	PAPER NUMBER	
MINNEAPOLIS, MN 55440-1022			2116 DATE MAILED: 07/01/2009		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 592 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 592 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/631,327	ROSEN, EITAN	
Notice of Allowability	Examiner	Art Unit	
	TSE CHEN	2116	
	TSE CHEN	2110	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate coming IGHTS. This application is	in this application. If not included nunication will be mailed in due coul	rse. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>the communication fit</u>	led on March 26, 2009.		
2. The allowed claim(s) is/are <u>1-5,7-15,23-27 and 29-37</u> .			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority unalled all blooms.</li> <li>a) ☐ All blooms.</li> <li>b) ☐ Some* clooms.</li> <li>c) ☐ None of the:</li> <li>d) ☐ Certified copies of the priority documents have</li> <li>d) ☐ Certified copies of the priority documents have</li> </ul>	e been received.	, .,	
3. ☐ Copies of the certified copies of the priority do	• • •		from the
International Bureau (PCT Rule 17.2(a)).		<b>5</b>	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ile a reply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner'</li><li>Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s)	5 □ Notice of	Informal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Informal Patent Application Summary (PTO-413),	
,	Paper No	o./Mail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. ⊠ Examiner	's Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	's Statement of Reasons for Allowan	ice	
	9.	·	
/Tse Chen/			
Primary Examiner, Art Unit 2116			

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#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant Attorney Mark Kirkland on June 17, 2009.

The application has been amended as follows:

- Claim 1, replace with -- A circuit, comprising: a clock transmitter in communication with a clock bus, the clock transmitter to transmit a clock signal on the clock bus; a clock receiver in communication with the clock bus, the clock receiver to receive a clock signal on the clock bus; and a driver in communication with the clock bus, the driver to drive and maintain a voltage of the clock bus to a first voltage level while the clock transmitter is not transmitting a clock signal on the clock bus and the clock receiver is not receiving a clock signal on the clock bus; the circuit further including enabling circuitry in communication with the driver, the enabling circuitry to enable the driver when the clock transmitter is not transmitting a clock signal on the clock bus and the clock receiver is not receiving a clock signal on the clock bus. --.
- Cancel claim 6.
- Claims 7-9, change "claim 6" to -- claim 1 --.

Application/Control Number: 10/631,327

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Claim 23, replace with -- A circuit, comprising: a clock signal transmission means in communication with a clock bus, the clock signal transmission means for transmitting a clock signal on the clock bus; a clock signal receiving means in communication with the clock bus, the clock signal receiving means for receiving a clock signal on the clock bus; and a voltage driving means in communication with the clock bus, the voltage driving means for driving and maintaining a voltage of the clock bus to a first voltage level while the clock signal transmission means is not transmitting a clock signal on the clock bus and the clock signal receiving means is not receiving a clock signal on the clock bus; the circuit further including enabling means in communication with the voltage driving means, the enabling means for enabling the voltage driving means when the clock signal transmission means is not transmitting a clock signal on the clock bus and the clock signal receiving means is not receiving a clock signal on the clock bus. --.

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- Cancel claim 28.
- Claims 29-31, change "claim 28" to -- claim 23 --.
- 2. The following is an examiner's statement of reasons for allowance: the claims are allowable because none of the prior art(s) cited, anticipate(s) or render(s) obvious a circuit of claim 1 with "a clock transmitter in communication with a clock bus ... a clock receiver in communication with the clock bus... a driver in communication with the clock bus, the driver to drive and maintain a voltage of the clock bus to a first voltage level... including enabling circuitry in communication with the driver, the enabling circuitry to enable the driver when... and the clock receiver is not receiving a clock signal on the clock bus..." in conjunction -- i.e., viewed

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as a whole -- with each and every limitation of the claim; and a circuit of claim 23 with "a clock signal transmission means in communication with a clock bus ... a clock signal receiving means in communication with the clock bus... a voltage driving means in communication with the clock bus, the voltage driving means for driving and maintaining a voltage of the clock bus to a first voltage level... including enabling means in communication with the voltage driving means, the enabling means for enabling the voltage driving means when... and the clock signal receiving means is not receiving a clock signal on the clock bus..." in conjunction -- i.e., viewed as a whole -- with each and every limitation of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TSE CHEN whose telephone number is (571)272-3672. The examiner can normally be reached on Monday - Friday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on (571) 272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tse Chen/ Primary Examiner, Art Unit 2116 June 17, 2009